PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHI		RITY	RATION IR	LAIY		
To: JOHN R. VAN AMSTERDAI WOLF, GREENFIELD & SA 600 ATLANTIC AVENUE BOSTON, MA 02210	M			PCT RITTEN OPINION OF THE IONAL SEARCHING AUTHORITY		
				(PCT Rule 43bis.1)		
			Date of mailing	22 JAN 2007	7	
Applicant's or agent's file refe	rence		(day/month/year)			
B0662.70057			See paragraph 2 below			
International application No.	nternational filing date	(day/month/year) Priority date (day/month/year)				
		9 September 2004 (09.0			-	
International Patent Classification (IPC) or both national classification			on and IPC		7	
IPC: G01N 33/53(2006.0 USPC: 435/7.1,15	(1);C12Q 1/4	8(2006.01)				
Applicant					\dashv	
BETH ISRAEL DEACONESS	MEDICAL	CENTER, INC.	. *	•		
This opinion contains indi	cations relatir	ng to the following item:	<u> </u>		Ī	
⊠			•			
$\overline{\Box}$	Basis of the op	pinion	•		1	
Box No. II P	riority	•				
Box No. III	Ion-establishn	nent of opinion with reg	ard to novelty, inve	entive step and industrial applicability		
Box No. IV L	ack of unity o	of invention				
		ment under Rule 43bis.		o novelty, inventive step or industrial tatement		
Box No. VI C	Certain docum	ents cited	·			
Box No. VII Certain defects in the international app			dication			
Box No. VIII C	ertain observa	ations on the internation	al application	•		
			application	•		
International Preliminary	Examining A one to be the	Authority ("IPEA") exc IPEA and the chosen II	ept that this does PEA has notified the	be considered to be a written opinion of the not apply where the applicant chooses an ite International Bureau under Rule 66.1bis(b) ered.		
If this opinion is, as providing IPEA a written reply togeth of Form PCT/ISA/220 or but for further options, see For	her, where ap efore the expi	propriate, with amendm ration of 22 months from	ents, before the ex-	PEA, the applicant is invited to submit to the piration of 3 months from the date of mailing whichever expires later.		
2 12.2 op.io.io, 500 1 ti	0 1110102			·		
3. For further details, see note	s to Form PC	T/ISA/220.				
Name and mailing address of the	e ICA/IIC	Data of complete	on of this - i - i - I	Author Steer	L	
Name and mailing address of th Mail Stop PCT, Attn: ISA Commissioner for Patents P.O. Box 1450	∿/US	22 December 200	on of this opinion 06 (22.12.2006)	print it steadman / Nalson		
Alexandria, Virginia 223 Facsimile No. (571) 273-3201	13-1450		. [Telephone No. 571-272-1600		

Form PCT/ISA/237 (cover sheet) (April 2005)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US04/29437

Box N	o. I Basis of this opinion
1. With	regard to the language, this opinion has been established on the basis of:
\boxtimes	the international application in the language in which it was filed
	a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2. With inven	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed tion, this opinion has been established on the basis of:
a.	type of material
	a sequence listing
	table(s) related to the sequence listing
b.	format of material
	on paper
•	in electronic form
c.	time of filing/furnishing
	contained in the international application as filed.
	filed together with the international application in electronic form.
	furnished subsequently to this Authority for the purposes of search.
3. 🗌	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additi	onal comments:
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US04/29437

Box No. IV Lack of unity of invention
1. In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has, within the applicable time limit: paid additional fees paid additional fees under protest and, where applicable, the protest fee paid additional fees under protest but the applicable protest fee was not paid not paid additional fees This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees. This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is complied with not complied with for the following reasons: See the lack of unity section of the International Search Report(Form PCT/ISA/210)
Consequently, this opinion has been established in respect of the following parts of the international application: all parts. the parts relating to claims Nos. 1-4

Form PCT/ISA/237 (Box No. IV) (April 2005)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/29437

. Statement	•	
Novelty (N)	Claims 2-4	Y
	Claims 1	N
	:	
Inventive step (IS)	Claims 2	
	Claims 1, 3-4	N
Industrial applicability (IA)	Claims 1-4	Y
,	Claims NONE	NO.
Citations and explanations:		
laim 1 lacks novelty under PCT Article 33(2) as be	or anticinated by Baas et al. (FMRO 1. 22-30	62-3072 2003) Bass et al. tanab
tivity assay in the presence and absence of STRAI	or a mutant thereof and thus anticipates clair	oz-5072, 2005). Baas et al. teach n 1.
laims 3-4 lack an inventive step under PCT Article	3(3) as being obvious over Baas et al. Baas e	t al. teaches mutant STRAD prot
at are not phosphorylated by LKB1 and it would he esence of STRAD and mutant STRAD to determine	ve been obvious to assay the activity of LKB	I in the presence of STRAD or in
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aim 2 meets the criteria set out in PCT Article 33(-(3), because the prior art does not teach or f	airly suggest the claimed invention
aims 1-4 meet the criteria set out in PCT Article 3.	(4), and thus have industrial applicability bec	ause the subject matter claimed c
made or used in industry.		
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